

Objective Template



Id: **IMRT H&N 70/35**
 Status: Approved
 Last Modified: June 06 2016 14:10:42:871
 Diagnosis: With Gross Disease
 Treatment Site:
 Description: Head and Neck with
 Gross Disease (70Gy
 in 35Fx) Includes OAR
 constraints

Optimization Objectives

IMRT

Default Smoothing X:	80	Default Smoothing Y:	60
Default Minimize Dose:	0	Default Optimization Type:	Beamlet
Max Iterations:	1000	Max Optimize Time [min]:	100
Default Fixed Jaws:		Interpolate:	
Use Colors:			

Beam Angle Optimization

Initial Field Distribution: Coplanar
 Minimum Number of Fields: 5
 Maximum Number of Fields: 9
 Maximum Elevation Angle for
 Non-Coplanar Fields: 90
 Maximum Collimator
 Variation: 0
 Local Geometric Optimization
 Mode: Simplex

Normal Tissue Objective

Use: false
 Automatic: false
 Priority: 150
 Distance From Target
 Border: 1
 Start Dose: 105
 End Dose: 60
 Fall-off: 0.05

Arc Optimization

Use MU Objective:
 MU Objective Strength: 50
 Minimum MU: 0
 Maximum MU: 2000
 Jaw Tracking:

Structure Objectives

Structure Objective: LPTV56

Volume Type: PTV
Resolution [mm]: 3.00

Surface Only:

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	6650.0	100	0
Line	upper	25.00	5600.0	70	1
Line	upper	10.00	6650.0	50	1
Point	lower	100.00	5600.0	100	0

Structure Objective: PTV70

Volume Type: PTV
Resolution [mm]: 3.00

Surface Only:

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	7000.0	100	0
Point	lower	100.00	7000.0	100	0

Structure Objective: RPTV56

Volume Type: PTV
Resolution [mm]: 3.00

Surface Only:

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	6650.0	100	0
Line	upper	25.00	5600.0	70	1
Line	upper	10.00	6650.0	70	1
Point	lower	100.00	5600.0	100	0

Structure Objective: Chiasm

Volume Type: Organ
Resolution [mm]: 1.00

Surface Only:

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	3000.0	60	0

Structure Objective: Lt Optic Nerve

Volume Type: Organ
Resolution [mm]: 1.00

Surface Only:

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
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Point	upper	0	5000.0	70	0
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Structure Objective: Rt Optic Nerve

Volume Type:	Organ	Surface Only:
Resolution [mm]:	1.00	

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	5000.0	70	0

Structure Objective: LPTV63

Volume Type:	PTV	Surface Only:
Resolution [mm]:	1.00	

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	6650.0	100	0
Line	upper	25.00	6300.0	70	1
Line	upper	10.00	6650.0	70	1
Point	lower	100.00	6300.0	100	0

Structure Objective: RPTV63

Volume Type:	PTV	Surface Only:
Resolution [mm]:	1.00	

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	6650.0	100	0
Line	upper	25.00	6300.0	70	1
Line	upper	10.00	6650.0	70	1
Point	lower	100.00	6300.0	100	0

Structure Objective: PTV63

Volume Type:	PTV	Surface Only:
Resolution [mm]:	1.00	

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	6650.0	100	0
Line	upper	25.00	6300.0	70	1
Line	upper	10.00	6650.0	70	1
Point	lower	100.00	6300.0	100	0

Structure Objective: PTV56

Volume Type:	PTV	Surface Only:
Resolution [mm]:	1.00	

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	6650.0	100	0
Line	upper	25.00	5600.0	70	1
Line	upper	10.00	6650.0	70	1
Point	lower	100.00	5600.0	100	0

Structure Objective: Spinal Canal

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	3400.0	90	0

Structure Objective: Brain

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	4500.0	70	0

Structure Objective: PRV 5mm

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	3600.0	80	0

Structure Objective: LEYE

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	4500.0	50	0

Structure Objective: REYE

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	4500.0	50	0

Structure Objective: PRV 8mm

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	0	3800.0	70	0

Structure Objective: LSUBMAND

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Line	upper	80.00	1000.0	50	1
Line	upper	40.00	2000.0	50	1
Line	upper	20.00	3000.0	50	1
Line	upper	10.00	4000.0	50	1

Structure Objective: RSUBMAND

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Line	upper	80.00	1000.0	50	1
Line	upper	40.00	2000.0	50	1
Line	upper	20.00	3000.0	50	1
Line	upper	10.00	4000.0	50	1

Structure Objective: LARYNX

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Type	Limit	Volume [%]	Total Dose [cGy]	Priority	Group
Point	upper	50.00	3000.0	50	0

Structure Objective: optLPAROTID

Volume Type: Surface Only:
Resolution [mm]: 0.00

Objectives

Structure Objective: optRPAROTID

Objectives

Structure Objective: BRSTEM

Objectives

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